

Books of the Week

For the editorial information of our readers, books received for review are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C.

ADVANCES IN SPACE SCIENCE AND TECHNOLOGY, Vol. 4—Frederick I. Ordway, III, Ed.—*Academic Press*, 431 p., illus., \$14. Treats subjects such as Doppler effect of artificial satellites, and possibilities of the existence of extraterrestrial intelligence.

ALL ABOUT ENGINES AND POWER—Sam and Beryl Epstein—*Random House*, 144 p., illus. by Joseph and Eva Cellini, \$1.95. For boys and girls.

ALL ABOUT MOUNTAINS AND MOUNTAINEERING—Anne Terry White—*Random House*, 144 p., photographs, map, \$1.95. For young and old.

ALL ABOUT THE PLANET EARTH—Patricia Lauber—*Random House*, 142 p., illus. by Lee J. Ames, photographs, \$1.95. For boys and girls.

AMERICANS INTO ORBIT: The Story of Project Mercury—Gene Gurney—*Random House*, 190 p., photographs, \$1.95. A non-technical account of the beginnings of space travel.

ANATOMY OF AUTOMATION—George H. and Paul S. Amber—*Prentice-Hall*, 245 p., illus.,

\$10.60. Emphasizes overall function and qualitative principles of automation, for executives and production men.

CLASSICS OF MODERN SCIENCE (Copernicus to Pasteur)—William S. Knickerbocker, Ed.—*Beacon Press*, 384 p., paper, \$2.25. Reprint (1927).

CRYSTALS—Raymond A. Wohlrahe—*Lippincott*, 128 p., illus., \$3.50. On the structure and growth of crystals, in layman's language.

THE DEVELOPMENT OF MATHEMATICAL LOGIC—P. H. Nidditch—*Free Press*, 88 p., paper, \$1.25. Clear outline of the growth and structure of mathematical logic.

DICTIONARY OF CHEMISTRY AND CHEMICAL TECHNOLOGY, in Four Languages: English, German, Polish, Russian—Z. Sobecka and others, Eds.—*Pergamon*, 724 p., \$30. Comprises some 12,000 concepts whose corresponding equivalents appear in current literature in each of the four languages.

EDUCATION IN WORLD PERSPECTIVE: The International Conference on World Education Problems—Emmet John Hughes, Ed.—*Harper*, 201 p., \$4.75. Celebrating the centennial of Vassar College, leading women scientists, lawyers and educators discuss emerging values and new directions, and their implications for education.

EINSTEIN: Profile of the Man—Peter Michelmor—*Dodd*, 269 p., \$3.75. A portrait, stressing

the human aspects rather than the scientific contributions.

THE FIRST BOOK OF COMMUNIST CHINA—William Kinmond—*Watts, F.*, 85 p., photographs, \$1.95. Depicts a land of contrasts and revolutionary changes.

THE FIRST BOOK OF STONE AGE MAN—Alice Dickinson—*Watts, F.*, 82 p., illus. by Lorence Bjorklund, \$1.95. Introduction to anthropology, for children.

FUNDAMENTALS OF MAGNETIC AMPLIFIERS—Barron Kemp—*Sams*, 127 p., illus., paper, \$2.95. Introductory text on saturable-core reactors and magnetic amplifier devices.

THE GEOLOGICAL ASPECTS OF THE ORIGIN OF LIFE ON EARTH—M. G. Rutten—*Elsevier (N.Y.)*, 146 p., illus., \$4.50. Deals with the basic principles and the general philosophies underlying geology, with the methods of absolute dating, and the record of fossils and biogenic deposits.

THE GROWING BRAIN: An Essay in Developmental Neurology—M. C. H. Dodgson—*Williams and Wilkins*, 238 p., illus., \$9. Neuropathologist treats the developmental history of the structure of the brain, its vulnerability and the establishment of brain function.

GUIDEPOSTS OF ANIMAL NAVIGATION—Archie Carr—*BSCS (Heath)*, 36 p., illus., paper, 48¢; subscription to series, Sept. to May, \$2.25 a year. First of eight monthly pamphlets on today's biological research, at high school level, prepared under supervision of the Biological Sciences Curriculum Study of the American Institute of Biology.

HORSEMEN OF THE STEPPES—Walter A. Fairervis, Jr.—*World Pub. Co.*, 128 p., illus. by Richard M. Powers, \$3.50. Based on archaeological source material, author recreates for young people the cultures of ancient peoples in the Asian grassy plains.

HUMAN HEREDITY—C. O. Carter—*Penguin*, 266 p., illus., paper, \$1.45. Outlines present knowledge about hereditary differences and genetic endowment, in layman's language.

INDEX TO SCIENTISTS OF THE WORLD, FROM ANCIENT TO MODERN TIMES: Biographies and Portraits—Norma Olin Ireland—*Faxon*, 662 p., \$12. Useful reference, culled from 338 collections, to help locate biographies and portraits of more than 7,475 scientists.

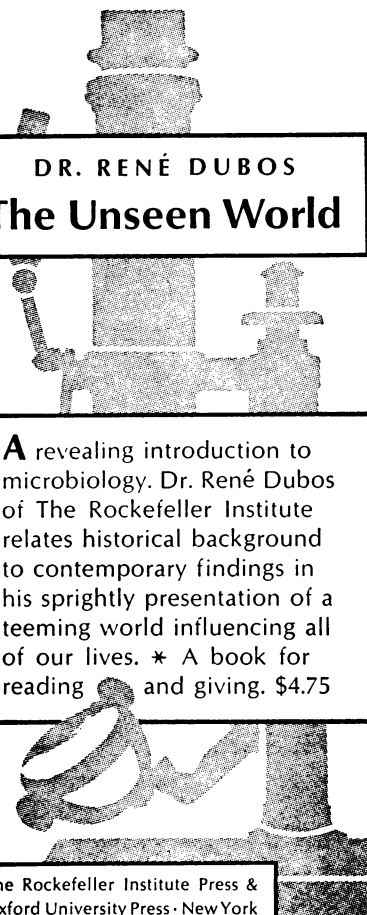
INTRODUCTION TO HERPETOLOGY—Coleman J. Goin and Olive B. Goin—*Freeman*, 341 p., illus., \$8. Text for one-semester course.

INTRODUCTION TO POLYMER CHEMISTRY—John K. Stille—*Wiley*, 248 p., illus., \$6.95. Fundamentals of the physical chemistry of polymers, polymerization reactions and their mechanisms and applications.

ISLAND IN TIME: The Point Reyes Peninsula—Harold Gilliam, foreword by Stewart L. Udall—*Sierra Club*, 87 p., photographs by Philip Hyde, \$7.50; paper, \$3.95. Presents in word and picture an unspoiled seashore of unique geologic significance, recently established by law as a national park.

JOHN H. GLENN: Astronaut—Philip N. Pierce and Karl Schuon—*Watts, F.*, 208 p., photographs, \$3.95. The story of the first U.S. space flight and its astronaut.

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KILL AND OVERKILL: The Strategy of Annihilation—Ralph E. Lapp—*Basic Bks*, 197 p., \$4.95. Discusses nuclear weapons stockpile, intercontinental missiles, strategy of deterrence and the forces that are accelerating the nuclear arms race.

KNOW YOUR OWN I.Q.—H. J. Eysenck—*Penguin*, 192 p., illus., paper, 85¢. Clear explanation of what the intelligence quotient measures and how tests should be evaluated. Includes eight sets of 40 I.Q. problems each, for self-testing, with tables for converting results.

LAW AND PSYCHIATRY: Cold War or Entente Cordiale—Sheldon Glueck—*Johns Hopkins Press*, 181 p., \$4.95. Legal scholar analyzes the conflicting claims and complex issues involved in establishing non-responsibility for crime "by reason of insanity" in the courts.

THE MARS PROJECT—Wernher von Braun—*Univ. of Ill. Press*, 91 p., diagrams, paper, 95¢. Reprint (1953), based on calculations made in 1948, this study demonstrates the technical feasibility of an expedition to Mars.

MODERN AMERICANS IN SCIENCE AND TECHNOLOGY—Edna Yost—*Dodd*, 175 p., photograph, \$3.25. Biographical sketches, from Elmer A. Sperry, originator of the gyroscope, to John P. Hagen, director of the Vanguard project, revealing the interdependence of scientific developments.

MUSIC, ACOUSTICS & ARCHITECTURE—Leo L. Beranek—*Wiley*, 586 p., illus., \$15 before Christmas; \$17.50 after. Results of scientific study and analysis of acoustic principles and evaluation and technical description of 54 acoustically outstanding halls in 15 countries.

THE ORIGIN OF RACES—Carleton S. Coon—*Knopf*, 745 p., illus., \$10. A detailed history of the evolution of the subspecies or races of man, presenting major research on the factors and forces that made the primate genus, man, evolve from a lesser to a more sapient state.

THE PALACES OF CRETE—James Walter Graham—*Princeton Univ. Press*, 269 p., 153 illus., \$7.50. A scholarly recreation from the clues of excavated ruins, of the Minoan palaces, villas and houses in the Late Bronze age.

PRINCIPLES OF ORGANIC CHEMISTRY—T. A. Geissman—*Freeman*, 2nd ed., 854 p., diagrams, \$9.75. Presents theoretical aspects as integral part of description of characteristics, behavior and applications of organic compounds.

REPORT OF THE NATIONAL CHEMICAL LABORATORY 1961—C. E. H. Bawn, Chmn.—*Dept. of Scientific & Indust. Res. (Brit. Inform. Services)*, 75 p., illus., paper, \$1.10. Reports on British research on the extraction of metals, new materials, corrosion and isotope applications.

THE SEARCH FOR PLANET X—Tony Simon, foreword by Clyde W. Tombaugh—*Basic Bks*, 118 p., illus. by Ed Malsberg, \$3.75. Tells the saga of the perseverance and hard work that led to the discovery of Pluto.

THE STRANGE LIVES OF FAMILIAR INSECTS—Edwin Way Teale—*Dodd*, 208 p., illus. by Su Zan Swain, photographs by author, \$4. Written to stimulate interest in the peculiarities of living insects, such as the dragonfly, the aphid and the lady bird beetle.

STRANGE WORLDS UNDER THE MICROSCOPE—Margaret Cosgrove—*Dodd*, 138 p., illus. by author, \$3.25. At secondary school level, includes experiments.

STRUCTURE SHIELDING AGAINST FALLOUT RADIATION FROM NUCLEAR WEAPONS—L. V. Spencer—*NBS (GPO)*, 134 p., illus., paper, 75¢. Monograph summarizes methods used and research data on the penetration of structures by gamma rays.

• Science News Letter, 82:276 October 27, 1962



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